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national or international standards. Onsiderations of network reliability, however, have economic implications that can influence the cost of providing service. The Commission therefore must not adopt an approach to technical feasibility that provides an economic advantage to the requesting carrier at the expense of everall network reliability.

Eikewise explicit uniform national guidelines governing specific performance standards for terms and conditions of interconnection such as maintenance, repair, and installation would be inefficient and inappropriate. Relying on the negotiation process to determine the details of interconnection and, accordingly, dealing with any performance failure, pursuant to the terms of the negotiated agreement, best ad-

For example, the Commission could build upon the definition of technical feasibility developed by the broad-based Information Industry Liaison Committee for purposes of evaluating unbundling requests by enhanced service providers. See generally A Report of the Information Industry Liaison Committee: Unbundling Criteria (Issue 022), Sept. 12, 1991.

For additional discussion regarding how the Commission should implement the technical feasibility requirement, see generally USTA comments, CC Docket No. 98-96 (filed May 16, 1996) and Letter from Ameritech to Regina Keeney, Chief, Common Carrier Tureau, of 3/12/96, at 26-28.

See NPRM para. 1 (requesting comment on whether performance standard should be adopted).

vances the pro-competitive, deregulatory goals of the 1996 Act.²³

To the extent the Commission determines that federal criteria are necessary for determining whether interconnection is at least "equal in quality" to that provided by the incumbent LEC to itself or any other party, 4 such criteria should be objective and not overly quantitative or microscopic in detail. Examples of objective interconnection criteria include the same or equivalent interface specifications or transmission parameters provided by the incumbent LEC to itself.

4. Section 251(c)(2) Interconnection Is Expressly Limited To The Transmission And Routing Of Telephone Exchange Service And Exchange Access.

Any national rules for evaluating interconnection arrangements must be limited by the scope of the interconnection duty imposed by section 251(c)(2). As the Commission

Indeed, in the context of expanded interconnection, the Commission has specifically rejected mandating performance standards. See Expanded Interconnection with Local Telephone Company Facilities, Report and Order and Notice of Proposed Rulemaking, 7 FCC Rcd 7369, 7393 n.103 (1992).

See NPRM para. →3.

See MTS/WATS Market Structure (Phase III), 100 F.C.C.2d 860, 877 (1985) (recognizing, in the context of implementing equal access provisions of the MFJ, that an overly quantitative or detailed definition of "equal in quality" would be impractical)

notes, section 251 c)(2) expressly provides that the interconnection obtained by the requesting carrier must be for the purpose of offering both "telephone exchange service and exchange access." Thus, the requesting carrier may not obtain interconnection pursuant to section 251(c)(2) if such carrier intends to offer solely exchange access, such as certain competitive providers ("CAPS") do today.

This interpretation of the scope of section 251(c)(2) is confirmed by legislative history. The Conference agreement adopted a "new model" for interconnection that incorporates provisions from both the House and Senate bills. 27 The Senate provision regarding interconnection more closely resembles the section 251(c)(2) interconnection duty ultimately adopted. The Penate bill, however, provided that LECs determined to have market power have the duty to provide "interconnection . . for the purpose of permitting the [requesting] telesommunications carrier to provide telephone exchange or exchange access service." An affirmative deci-

See NPRM para. 162 (emphasis added).

See H.R. Rep. No. 458, 104th Cong., 2d Sess. 121 (1996), reprinted in 1'96 U.S.C.C.A.N. (104 Stat.) 124, 132 [herein-after Conference Report].

S. 652, 104th 'ong., 1st Sess. new § 251(a)(1)(A)(1995) (emphasis adde:).

sion thus was made at Conference to change the conjunction connecting the terms telephone exchange service and exchange access from "or" to "and." This change represents a decision by Congress that interconnection pursuant to section 251(c)(2) be available to new entrants seeking to compete fully with incumbent LECs by providing both competing telephone exchange service and exchange access.

This requirement is also most consistent with the fundamental purpose of the 1996 Act. The overriding purpose of section 251 of the 1996 Act is to eliminate barriers to local exchange competition. Congress must have recognized that competitive providers of local exchange service would necessarily provide exchange access service on behalf of their local exchange customers because Congress required that they be offered interconnection for the provision of local exchange and exchange access service. Nothing in the 1996 Act or its legislative histor, however, indicates that Congress was concerned about exchange access service per se. Indeed, the Commission, throug its expanded interconnection rules, already had required interconnection for the provision of ex-

change access serv ces. 29 Thus, there was no need for Congress to act in this are.

As the C mmission recognizes, ignoring the conjunction "and" and req iring incumbent LECs to offer section 251(c) interconnection to providers of access, but not local exchange services, would make it quite easy for interexchange carriers ("IXCs") o end-run the Commission's access charge regime. They could simply establish an affiliate competitive access provider ("AP") and use that affiliate to purchase access under the terms established for interconnection. This end-run is a resul Congress neither intended nor contemplated. Rather, Congress intended that section 251(c) interconnection be offered to carriers providing competitive local exchange service is recognition that such carriers would necessarily also be providing exchange access service.

See generally Expanded Interconnection With Local Telephone Company Facilities, CC Docket No. 91-141; 47 C.F.R. pt. 64, subp. N.

See NPRM para. 162.

The Commission suggests that requiring cost-based interconnection only for carriers offering both telephone exchange and exchange access could "exclude" CAPs that currently interconnect with incumbent LECs in order to offer competing exchange access transport services. See NPRM para. 162. On the contrary, CIPs will still be able to interconnect pursuant to the Commission's expanded interconnection rules. To the extent that a CAP interconnects in order to provide (continued...)

Similarly, the regulatory paradigm for obtaining access for purposes of originating and terminating toll traffic remains unaffected by section 251. As the Commission correctly concludes, ection 251 does not displace the existing access charge regire. 12 That is, IXCs may not obtain interconnection pursuant to section 251(c)(2) merely for the origination and termination of interexchange traffic. To interpret the 1996 Act otherwise conflicts with the plain language of section 251(i), which ratifies and leaves unaffected the Commission's juris iction over interstate services, including access charges. Mereover, such an interpretation would transfer regulation of Interstate charges from the Commission to the states because section 252 provides that pricing determinations will be made by the relevant state commission. Congress clearly did ot intend such a result because it would be directly contradic ory to the Commission's authority under section 201.33 Alt ough section 251(g) recognizes that the

^{1 (...}continued)
 local exchange service, that interconnection would be governed by section 251(c).

See NPRM paras. 146, 160-61.

Significantly, MCI has made the same legal argument in urging the Commission to allow states to enforce the geographic averaging requirements for intrastate, interexchange service: "[h]ac Congress intended for the Commission to (continued...)

Commission has discretion to review its access rules, the 1996 Act does not require such review as part of the rulemaking to implement section 51.

B. Collocat on

1. The Term "Premises" Should Include Only Central Off ces Housing Network Facilities In Which The Incambent LEC Has The Exclusive Right of Occapancy.

Amerited concurs with USTA in supporting the Commission's proposal to promulgate federal collocation standards by re-adopting prior physical collocation standards established in the context of expanded interconnection. For purposes of physical collocation, the Commission should clarify that the term "premises" is limited to central office buildings (or port ons thereof) in which the incumbent LEC has the exclusive righ of occupancy, and in which are located LEC network equipment and the technically feasible point of interconnection or access to network elements.

regulate intrastate interexchange rates, it would have more substantially arended the Communications Act,"

Comments of MCI Telecommunications Corporation, CC Docket
No. 96-61 (filec Apr. 19, 1996) at 28-29.

^{34 &}lt;u>See NPRM</u> paras. 67 & 73.

See id. para. 7 (requesting comment on how the term "premises" should be defined). See Expanded Interconnection with Local Telephone Company Facilities, 7 FCC Rcd at 7417-(continued...)

The Commission should not find that section 251(c)(6) requires physical collocation in structures, such as vaults or huts, located on a private easement or public rights-of-way because there are legal and contractual restrictions on the placement of equipment belonging to third parties at most of such locations. As a legal matter, a LEC may not be able to give another carrier authorization to place equipment on a third party's property. Moreover, as the Commission concluded previous y, collocation at these remote locations raises a number of operational, administrative, and security concerns. Finall, Congress has specifically addressed the issue of a request ng carrier's access to poles, ducts, conduits, and rights-f-way in sections 251(b)(4) and 224.

^{35 (...}continued) 18 (limiting collocation to serving wire centers and end offices).

See NPRM para. 1 (requesting comment on whether structures on public rights of-way should be deemed LEC premises).

See Expanded Interconnection with Local Telephone Company Facilities, 7 FCC Rcd at 7418.

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2. Mandating Virtual Collocation In Addition To, Rather Than As An Exception To, Physical Collocation, Would Contravene The Plain Language Of Section 251(c)(6).

Contrary to the Commission's apparent conclusion, 38 the 1996 Act does not grant the Commission the authority to mandate virtual cc location in addition to statutorily reguired physical collocation. Section 251(c)(6) specifically provides that virtual collocation is an exception that applies only if the incumbent LEC demonstrates that physical collocation is not practical for technical reasons or space limitations. It is a well-established principle of statutory interpretation that specific legislative provisions take precedence over general provisions. 39 Because Congress has specifically addressed collocation in section 251(c)(6), it would be inappropriate for the Commission to mandate virtual collocation pursuant to the section 251(c)(2) general duty to provide interconnection at technically feasible points when the more specific language contemplates virtual collocation only when physical collocation is not practical. This interpretation is also consistent with the Commission's original determination

See NPRM para. 4.

See, e.g., Traylor v. Turnage, 485 U.S. 535, 539 (1988); Galliano v. U.S. Postal Serv., 836 F.2d 1362, 1367 (D.C. Cir. 1988); United States v. Paddack, 825 F.2d 504, 514 (D.C. Cir. 1987).

to require virtual collocation only where physical collocation is unavailable.

C. Access To Network Elements

1. Sec ion 251(c)(3) Should Be Construed Consisten ly With Its Purpose To Promote Facilities-Based Competition.

The Comm ssion's analysis in its NPRM recognizes, and the legislative history confirms, that the primary purpose of the 1996 Act's inbundling provisions is to promote local exchange competition by giving new entrants a middle option between pure facilities-based service and pure resale.⁴⁰

This construction is consistent with the goals of pro-competitive states that have already required unbundling. For example, the I linois Commerce Commission has stated:

As Staff and others observed, unbundling can facilitate competitive entry by reducing the capital investment necessary to provide local exchange service.

The full pro-competitive benefits of reducing the capital cost barriers to entry can be achieved only if the incumbent LECs are required to sell their competitors only those network components and functionalities that

Indeed, the leg slative history of section 251(c)(3), quoted in the NPRM, confirms this intent: "[I]t is unlikely that competitors will have a fully redundant network in place when they initially offer local service because the investment necessary is so significant. Some facilities and capabilities will likely need to be obtained from the incumbent [LEC] as network elements pursuant to new section 251."

Conference Report at 148, guoted in NPRM at n.103.

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new LECs need. . . . Unbundling not only reduces ompetitors' costs of entering the local exchange market, it can reduce the overall societal cost of providing telecommunications services by enabling new entrants to avoid wasteful duplication of incumbent LEC facilities for which competitive provisioning may not be economically viable. 41

Similarl, the Michigan Public Service Commission has noted that commetition is increased by enabling "a new entrant . . . to rely on a combination of its own facilities and facilities leased from the incumbent LEC."

In short the unbundling provisions of the 1996 Act were not established in a vacuum. They have a history and a widely recognized urpose: bridging the gap between pure facilities competi ion and pure resale by making it possible for competitive LE's to combine their own facilities with incumbent LEC facilities in providing local exchange and exchange access se vice. The unbundling provisions were neither intended to provide IXCs with a vehicle to end-run the Commission's interstate access charge regime, nor to establish

Customer First (rder at 47.

^{42 &}lt;u>City Signal</u> at 2.

a duplicative and potentially harmful set of rules for what is, in reality, no hing more than pure resale. 43

Construing section 251(c)(3) to permit a classic arbitrage opportun ty would be inefficient and would discourage the developmen of facilities-based competition. Carriers would purchase services and elements under either section 251(c)(3) or (c)(4 depending upon which pricing standard resulted in the lover price to the requesting carriers. For example, carriers would be able to purchase those retail services priced below cost under the resale provisions of the 1996 Act, while procuring other services at cost by bundling all of the components of such services pursuant to section 251(c)(3). With such "favorable," but grossly irrational, "resale" opportunities, carriers would have little incentive to build their own networks. Moreover, this kind of arbitrage situation could lead to inefficient entry and a lack of fair return to the incumbent LEC providing the network elements or resold service. Such "competition" does not benefit consum-Congress did not intend that section 251(c)(3) would

Of course, if the national pricing standard for access to network elements ultimately adopted properly permits incumbent LECs to resover all costs and a reasonable profit as required by section 252(d)(1), the opportunity for arbitrage and the disincestives to facilities-based competition and technical innovation will be substantially lessened.

entirely undercut esale pursuant to section 251(c)(4), but rather that sectio 251(c)(3) would ensure that incumbent LECs provide network elements (at wholesale) that were not previously made available individually at retail on a wholesale basis.

Moreover Congress in section 251(d)(2) has provided the Commission wit direct guidance to avoid undercutting the section 251(c)(4) resale provision. Specifically, in determining what networ: elements must be made available, the FCC must consider whether "failure to provide access . . . would impair the ability of the telecommunications carrier seeking access to provide he services that it seeks to offer."44 If the incumbent LEC s providing the equivalent telecommunications service at ratail, and accordingly making it available for resale at wholesale rates, the requesting carrier's lack of access to re-buildled network elements to re-create exactly the same service differing clearly does not impair that carrier's ability o offer that service. Section 251(c)(3), which is expressly limited by Subsection (d)(2), simply does not permit requesting carriers to piece together network elements, all purchased from the incumbent LEC, in order to

^{44 47} U.S.C. § 251 d)(2)(B).

offer a service equivalent to one that the incumbent LEC already offers at etail.

Additionally, as noted by the Commission, 45 an interpretation of section 252(c)(3) that allows requesting carriers to re-bundle all notwork elements comprising a retail service -- without combining such network elements with their own elements -- would all w IXCs to circumvent the section 271(e)(1) joint marketing limitation. 46 This joint marketing restriction reflects two important goals. First, it encourages IXCs to build their own to all exchange facilities by offering them the incentive of earlier joint marketing authority. Second, it promotes fair composition. IXCs have acknowledged to this Commission that "a large portion of the market prefers to obtain all voice services as a package." They also have

See NPRM at $n.1^{\circ}3$.

Section 271(e)(*) prohibits IXCs with more than five percent of presubscribe access lines in the U.S. from jointly marketing long (istance services and resold telephone exchange service (btained from a BOC until the earlier of February 8, 199° or the date on which the BOC is authorized to provide in region interLATA services within a particular state. 47 U.S. § 271(e)(1).

AT&T, MCI, LDDS WorldCom, & CompTel, Interconnection, Unbundling and Access: Creating Full Service Competition Under the Telecommunications Act of 1996, at 1-2 (Mar. 1996).

acknowledged that hose who can first offer one-stop shopping gain a significant market advantage. As AT&T has stated:

[0] ur research shows that . . . about two out of three people will want to bundle long distance and local services. . . . Customers have always 1 ked bundles. In fact, they've never really d stinguished between local and long distance services. It's not a logical separation in heir minds. It's only logical to regulato's. . . Our job is to develop the bundles of service they most want. And we'll do it by bringing the power of our brand to bundles. The right bundles strengthen the bonds with customers and increase retention rates. And, as new combinations of communications buildles become possible, the first company to salisfy people's needs for those bundles gains a reat advantage. They establish a bond that ever the promise of lower prices won't break.48

The Commission should not skew competition in the marketplace by allowing IXCs to circumvent the joint marketing provisions of the 1996 Act. Resale by any other name is still resale, and the Commission should treat it as such. Therefore, if a carrier purchases all of the elements necessary to re-create a service offered by the incumbent LEC at retail, that purchase should be treated as a purchase under section 251(c)(4) of the 1996 Act, not 251(c)(3).

Joseph P. Nacch o, Executive Vice President, AT&T Consumer and Small Business Division, Keeping the Customers Satisfied, Remarks a Morgan Stanley Conference (Feb. 13, 1996) (emphasis added)

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2. In Defining The Core Set Of Network Elements, The Commission Must Follow The Statutorily Prescribed Analysis For Determining What Elemen s Must Be Made Available Pursuant To Sections 251(c)(3) And 251(d)(2).

Section 51(c)(3) provides that an incumbent LEC must provide, upon request, nondiscriminatory access to network elements on a unbundled basis to any telecommunications carrier for the provision of telecommunications service. As the Commission correctly concludes, section 251(d)(2) obligates the Commission to determine what network elements should be made available under section 251(c)(3).49 The Commission, however, should no attempt to itemize an exhaustive list of network elements. Rather, the Commission should define a core set of network elements -- that are technically feasible and needed to provide competitive services -- which all incumbent LECs must make available upon request. Additional network elements beyond that core should evolve through negotiations.

As explained in greater detail below, Ameritech proposes that the Commission undertake the following analysis when developing the core set of network elements: (i) Does the proposed element fit within the statutory definition of "network element"? (ii) If so, does it meet the section 251(d)(2) criteria? and (iii) Is access to the proposed element.

See NPRM para. 7.

ment technically feasible? This analytical framework successfully balances the Commission's interest in providing adequate guidance for the states with the statutory goal of relying on negotiations between the carriers. Moreover, this interpretation harmonizes sections 251(c)(3), 251(d)(2), 252, and 271(c)(2)(B) and thus is consistent with the "whole statute" principle of statutory interpretation. 50

Two cond tions must be met for a requested element to qualify as a network element. First, the prospective network element must be equipment or a facility, including features, functions and capabilities that arise from such equipment or facility, that the incumbent LEC uses to provide a telecommunications service. Second, the network element need be provided only to the extent that it is "sufficient" for billing and do lection or "used" by the requesting carrier to transmit, route or otherwise provide a telecommunications service. Any federal regulations establishing a core set of network elements must reflect these principles and limitations.

The "whole statute" principle provides that each part or section of a statute should be construed with every other part or section so as to produce a harmonious whole. See, e.g., Gustafson v. Alloyd Co., Inc., 115 S. Ct. 1061 (1995); Smith v. U.S., 108 U.S. 223 (1993).

⁵¹ 47 U.S.C. § 153 29).

Under the second prong of analysis, the Commission must consider whether failure to provide access to the element would "impair the bility of the [requesting] telecommunica-. . to provide the services that it seeks tions carrier to offer"52 or, in he case of proprietary network elements, 53 necessary."54 Parties such as AT&T that whether access is arque that section 251(d)(2) requires the Commission to mandate an extensive ist of network elements are mistaken. Rather, this is a imiting provision. In it, Congress placed reasonable bounds in the requirement to provide unbundled network elements. Specifically, Congress expressly authorized by the Commissioner t limit access to network elements on an unbundled basis in luding instances where failure to obtain access would mater ally diminish the quality of a competing service or, in the case of proprietary elements, would render

⁴⁷ U.S.C. § 251-d)(2)(B). As the Commission has correctly concluded, the section 251(d)(2)(B) prerequisite applies to all network elements, not just those that are proprietary in nature. See NPFM para. 93.

Network elements that are proprietary in nature must be maintained in confidence by the telecommunications carrier to whom access is provided. The Commission therefore should clarify that the provision of statutorily required access to proprietary elements in no way waives the proprietary nature of such element

 $^{^{54}}$ 47 U.S.C. § 251 d)(2)(A).

the requesting carrier incapable of providing a competing service.

Finally, inder the third prong, the Commission must examine the technical feasibility of providing access to the proposed element. As discussed earlier, the Commission should provide guidance or the criteria for determining technical feasibility. Ameritech agrees that such guidelines can create a rebuttable presumption regarding the technical feasibility of (i) network elements currently being provided on an unbundled basis by incumbent LECs and being used by one or more telecommunications carriers in the provision of a telecommunications service and (ii) specific network elements required to be provided, or generally offered, on an unbundled basis pursuant to the competitive checklist. This approach ensures that netwo k elements that are not actually needed or that are not technically feasible are not prematurely included as "national requirements."

3. The Core Set of Network Elements Should Be Tho: e Elements Actually Provided Today Or Specified In The Competitive Checklist.

Amerited agrees that the four categories of network elements listed in paragraph 93 of the NPRM (loops, switches,

⁵⁵ See supra Part 11.A.

 $[\]frac{56}{2}$ See 47 U.S.C. § 271(c)(2)(B)(iv),(v),(vi), and (x).

transport facilities, and signalling and databases) pass the analysis described above and should constitute the core set of network elements. Experience has demonstrated that it is technically feasible for LECs to provide these elements on an unbundled basis. In addition, it is clear that these elements pass the "impairment test" of section 251(d)(2). Indeed, the fact that Congress has included these elements in the section 271 checklist is compelling evidence of the importance of these elements to interconnectors. All incumbent LECs, therefore, should be required to offer these elements to requesting interconnectors.

Access to network elements beyond these general categories should volve through negotiations between carriers pursuant to good f ith requests. Moreover, procedure for handling good faith requests would expedite processing of the request and protect of oth parties to the negotiations by providing a means for efficient resolution of open issues. Such a procedure should require the requested party to provide reasonable responses to requests. In turn, a good faith request should include a commitment by the requesting carrier either to order the network elements or interconnection in the quantity requested or to reimburse the incumbent LEC for the costs incurred in responsing to such request. If structured proper-

ly, a good faith request process will protect and serve the interests of both parties to the regulation, as well as providing evidence necessary for arbitrators and state regulators to resolve dispute 47

a. Local Loop Transmission Should Be Provided, Upon Request, But Subloop Unbundling Should Evolve Through Good Faith Negotiations.

For over a year, Ameritech has offered unbundled local loop transmi sion service in Illinois and Michigan by providing local loop transmission from the main distributing frame in Ameritech s end office to the network interface at the customer's precises, separate from any other service or feature. In fact, it is estimated that over 45,000 Ameritech loops will be used by interconnecting carriers by the end of 1996 with a projec ed ongoing growth rate exceeding 100% per year. In addition, item (iv) of the competitive checklist requires that BOCs provide "local loop transmission from the central office to the customers' premises, unbundled from

See generally discussion of bona fide request process in USTA comments, C Docket No. 96-98 (filed May 16, 1996); Letter from Ameritech to Regina Keeney, Chief, Common Carrier Bureau, of 3 12/96, at 29-32.

See Bellcore, I sues Concerning the Providing of Unbundled Subloop Element by Ameritech (May 15, 1996) (attached hereto) [hereinafte "Bellcore Statement"].

local switching and other services." Ameritech's offering thus demonstrates the technical feasibility of providing unbundled local satisfies the sect on 251(d)(2) prerequisite. The Commission should therefore is clude this service in the core list of network elements.

Amerited, however, believes that the tentative conclusion regarding T&T's subloop unbundling proposals is premature. Subloop unbundling fails the analytical test discussed above. Is the Joint Conference Report notes, the local loop is a nework element. Even assuming arguendo that sub-elements of an element could fit within the statutory definition of network element, the proponents of subloop unbundling -- primarily AT&T -- have not demonstrated that failure to obtain access to the subloop would impair their ability to provide telecommunications services as required by section 251(d)(2).

⁵⁹ 47 U.S.C. § 271 c)(2)(B)(iv).

See NPRM para. 17 (tentatively concluding that further unbundling of the local loop should be required).

See Conference eport at 116.

No one has not demonstrated the technical feasibility of providing a cess to loop feeder and distribution plants on an unbundled basis at remote switching or concentration sites on a general zed basis. Similarly, because subloop unbundling has been either required by Congress in the section 271 competitive checklist nor implemented by any incumbent LEC, it simply cannot presumed to be technically feasible. It also shound be clarified that neither Illinois nor Hawaii has unconditionally mandated subloop unbundling. In fact, as set forth in the attached summary prepared by Bellcore, subloop inbundling is technically impossible for 27%

⁶² <u>See</u> id. The Illinois Commerce Commission has approved subloop unbundling, but only in response to bona fide requests that are found to be technically feasible. Specifically, the ICC requires that LECs file intrastate tariffs offering "loop sub-elements" within 180 days of receiving a bona fide request for such sub-elements. A bona fide request is defined as a written request by an interconnector which states that it will purchase specific loop sub-elements within six months of the date of the request. Ill. Admin. Code tit 83, § 790.320. To date in Illinois no entity has requested subloop unbundling. Moreover, LECs may petition for walver within 60 days of receiving a bona fide request if the requested interconnection is not technically or economically practicable, considering demand for the service, or is «therwise contrary to the public interest. See Adoption of Rules on Line-side Interconnection and Reciprocal Interconnection, Interim Order No. 94-0049 (Ill. Commerce Comm'n Apr. 7, 1995). The Hawaii Public Utility Commission has rerely requested that GTE submit cost information on feeder, distribution, and concentrator points of interconnection within the local loop. Hawaii has not ordered GTE to provide subloop unbundling. See Order No. 14129 (Haw. Pub Util. Comm'n Aug. 14, 1995).

of Ameritech's loops that are directly connected via undivided copper cables. Moreover, given the current complex plant design, planning, etwork architecture, operational and operations support issues, there are serious hurdles to overcome in order to offer loop sub-element unbundling at all. 63

While wo ds have been developed which generically describe how to pice-part loop facilities (e.g., feeder and local distribution, these arrangements have not been developed into network lements. For example, Ameritech has not received from pote tial interconnecting carriers a technical description of the locations, equipment interfaces, and other details of the sub-pop network elements they may seek. These technical details re-essential for determining if and how subloop unbundling can be provided. In addition, standards and interfaces applicable to any of these subloop arrangements have yet to be defined. M

See Bellcore Statement.

Standards have teen published and are available to describe unbundled local loops. <u>See</u> Ameritech's Technical Publication TR-TMO-000 22 and TR-TMO-000123. Other providers of unbundled local loops have published similar specifications. No similar spec fication exists today for loop sub-elements.

Moreover, it has not even been determined what type of subloop arrangements may be technically feasible to unbundle. Such a rangements cannot be accomplished by reprogramming software or even a switch. Implementation is required in the field at the thousands of potential points of access to subloop elements. For example, in Illinois alone access to loop transmission at Ameritech end offices would create around 300 possible points of access. If even the most basic form of subloop unbundling were implemented at aboveground cabinets and controlled environment vaults, over 24,000 additional possible points would have to be created in the field throughout Illinois. If further unbundling were required at pedestals and poles, the number of potential points

There are a number of technical and administrative questions which have to be addressed. For instance, the local loop multiplexing equipment employed by Ameritech does not contain cross-connect capabilities. Each channel unit is "hard wired" to underground cable leaving the multiplexer's location. The multiplexer through its connections to the wire center also provides basic testing capabilities essential for trouble sectionalization and repair. Unlike central offices which provide some flexibility in equipment selection, layout, and deployment, controlled environment vaults ("CEVs") and abcze-ground cabinets are designed and pre-installation equipped to support only a specified quantity and equipment vintage of a given manufacturer. The thermal, electrical, and emergency power requirements of each installation is predetermined and balanced against the type of equipment installed.

Bellcore Statement at 2.